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Abstract An electronic payment gateway system of security transaction and independent authority is a new design for electronic transaction which utilizes one-way hashed password principle in combination with CA public/private key to develop a system that the entire secure transaction flow process is controlled by the security control center and the approval center verifies if the personal identification and message are correct to ensure the identification confirmation message integrity, non-duplicated order, high fault tolerance and transparent transaction flow process. In addition, this system does not have additional economical overhead and import/export restriction in terms of technology, so it can be globally adapted by numerous financial facilities and is more acceptable than the current security system of electronic commerce, in particular when the material flow center is taken into account. It is the system that has the purchase flow designs for both verification and registration.

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